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Appendix VII

ANTHROPOMETRIC

114 In April 1938, by an arrangement with Dr. B. S. Guha, of the department of Anthropology of the Zoological Survey of India, a trained worker, Dr. B. K. Chatterji, came to Jubbulpore and during the course of some two weeks we made the usual measurements on 150 Kols : 127 men and 23 women. [564] In the tables following the men are divided into two groups depending whether they belonged to the Rautiya or the Thakuriya subdivision.

The statistical results which follow were kindly compiled by Dr. C. Chandra Sekar, head of the Statistical Laboratory, Indian Statistical Institute. Dr. Chatterji is also working out a detailed analysis which at the date of printing is not ready for publication and inclusion here. However, it is hoped that this will appear separately later on and will give a full analysis of the measurements together with his observations on racial likenesses and affinities to other groups.

No detailed comparison with other groups is made here, nor are any theories of racial relationship advanced in respect to these measurements. They are recorded for the use of any who may find them helpful in making wider generalizations in relation to other anthropological data.

141 In addition to the tables the following general observations are taken 142 from our notes :

1. *Skin Colour, (Von Luschan Scale).*

(1) Men :

Colour No.	No.
23	2
24	5
25	31
26	56
27	8
28	13
29	12
	127

(2) Women :

Colour No.	No.
21	2
22	1
23	2
24	2
25	7
26	7
27	
28	1
29	1
	23

2. *Eye Colour*

(1) Men :

Black	48
Dark Brown	47
Medium Brown	32
	127

(2) Women :

Black	15
Dark Brown	3
Medium Brown	5
	23

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3. *Eye Shape*

(1) Men:		(2) Women:	
Oblique	19	Oblique	5
Slightly oblique	47	Slightly oblique	5
Straight	20	Straight	3
Not recorded	41	Not recorded	18
	127		31

Epicanthic fold noted in two cases, both men.

4. *Mongoloid appearances*

(1) Men:		(2) Women:	
Slightly mongoloid	2	Slightly mongoloid	1
Mongoloid	26 or 22%	Mongoloid	7 or 35%

5. *Hair Colour*

Both men and women:

Black	56
Dark Brown	94

6. *Hair Texture*

Curly	Nil
Wavy	4%
Straight	73%
Straight and rather coarse	23%

7. *Lips.*

Very thick	13 %
Thick	78 %
Medium	4·5%
Thin	4·5%

Lower lip generally thicker than upper.

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TABLE I.

Statistical analysis of Anthropometric Measurements of 95 Adult Male Rautiyas

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Measurement in mm.	Mean	Probable error of mean ±	Standard deviation	Probable error of standard deviation ±	Coefficient of Variation	Probable error of variation ±
1. Stature	1599.66	5.29	77.73	3.80	4.9	.34
2. Height up to Tragion	1477.35	3.68	53.77	2.60	3.6	.18
3. Auricular height						
4. Max. head length	182.20	.58	8.45	.41	4.6	.22
5. Max. head breadth	137.35	.29	4.23	.21	3.1	.15
6. Min. Frontal breadth	101.76	.27	3.96	.19	3.9	.19
7. Max. Bizygomatic breadth	131.13	.29	4.16	.20	3.2	.16
8. Bigonial breadth	98.81	.23	4.82	.24	4.9	.24
9. Interorbital breadth	29.76	.23	3.20	.16	11.1	.54
10. Orbito nasal breadth	101.32	.41	5.82	.29	5.9	.29
11. Orbito nasal arc	117.13	.41	5.95	.29	5.1	.25
12. Nasal length	47.29	.25	3.66	.18	7.7	.38
13. Nasal breadth	27.00	.20	2.85	.14	7.7	.38
14. Nasal height or depth	18.96	.12	1.77	.09	10.4	.51
15. Upper facial length	67.45	.30	4.40	.22	7.7	.38
16. Total facial length	113.38	.53	7.66	.37	6.9	.33
17. Hor. circm. of the head	526.06	.94	13.63	.67	2.6	.13
18. Sagittal arc	236.92	.86	12.79	.62	5.4	.19
19. Transverse arc	310.02	.82	11.81	.50	3.7	.18

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TABLE II

Statistical Analysis of Anthropometric Measurements of 23 adult female Rautiyas

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Measurement in mm.	Mean	Probable error of mean ±	Standard deviation	Probable error of standard deviation ±	Coefficient of variation	Probable error of variation ±
1. Stature	1490.80	8.78	48.21	4.79	3.2	.31
2. Height up to Tragion	1362.20	7.06	50.10	4.98	3.7	.37
3. Auricular Ht.						
4. Max head length	174.65	.92	6.58	.65	3.8	.38
5. Max head breadth	132.39	1.01	7.17	.71	5.4	.54
6. Minimum frontal breadth	98.57	.46	3.24	.32	3.3	.33
7. Max. Bizygomatic breadth	134.74	.73	5.13	.51	4.1	.41
8. Bigonial breadth	96.22	1.18	8.41	.84	8.7	.87
9. Interorbital breadth	22.35	.23	1.63	.16	8.6	.86
10. Orbito nasal breadth	99.04	.50	3.58	.36	3.6	.36
11. Orbito nasal arc	114.70	.43	3.03	.30	2.6	.26
12. Nasal length	44.50	.55	3.90	.39	8.8	.88
13. Nasal breadth	24.00	.25	1.79	.18	8.3	.83
14. Nasal height or depth	15.39	.23	1.58	.16	10.3	1.02
15. Upper facial length	75.04	.72	5.15	.51	9.4	.93
16. Total facial length	106.61	.82	5.82	.58	5.5	.55
17. Hor. circ. of the head	517.70	1.93	13.74	1.37	2.7	.27
18. Sagittal arc	317.38	1.50	10.45	1.06	3.3	.33
19. Transverse arc	304.13	1.73	12.31	1.23	4.0	.40

1:Griffiths M-5 (ca. 1940) 1946 AW37 Kol AW37

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TABLE III

Statistical Analysis of Anthropometric Measurements of thirty-three adult male Thakfiriyas

Measurement in mm.	Mean	Probable error of mean ±	Standard deviation	Probable error of standard deviation ±	Coefficient of Variation	Probable error of Variation ±
1. Stature	1615.21	5.26	44.83	3.72	2.8	.23
2. Height up to Tragion	1483.72	5.48	46.00	3.88	3.1	.26
3. Auricular Ht.						
4. Max. head length	183.55	.59	5.08	.42	2.7	.22
5. Max. head breadth	139.67	.64	5.47	.45	3.9	.32
6. Minimum frontal breadth	103.85	.43	3.62	.30	3.5	.29
7. Max. Bizygomatic breadth	131.55	.43	3.63	.30	2.8	.23
8. Bigonial breadth	96.88	.51	4.33	.36	4.4	.37
9. Interorbital breadth	20.52	.27	2.28	.19	7.7	.64
10. Orbito nasal breadth	102.21	.41	3.50	.29	3.4	.28
11. Orbito nasal arc	118.86	.42	3.55	.29	3.0	.25
12. Nasal length	48.70	.38	3.21	.27	6.5	.54
13. Nasal breadth	27.73	.24	2.02	.17	5.4	.45
14. Nasal height or depth	17.45	.27	2.32	.19	13.3	1.10
15. Upper facial length	50.81	.48	4.01	.34	6.7	.56
16. Total facial length	115.33	.70	5.99	.50	5.20	.43
17. Hor. circ. of the head	533.91	1.53	12.99	1.08	2.5	.21
18. Saggital arc	359.91	1.23	10.48	.87	3.1	.26
19. Transverse arc	322.85	1.35	11.48	.96	3.6	.30

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TABLE IV

INDICES

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Index	Mean	Probable error of mean ±	Standard deviation	Probable error of standard deviation ±	Coefficient of Variation	Probable error of Variation ±
1. Ninety-five adult Rautiya Males—						
Cephalic	75.55	.31	4.45	.22	5.89	.29
Nasal	73.79	.84	9.29	.45	11.79	.58
Facial	86.53	.42	6.14	.30	7.10	.35
2. Twenty-three Rautiya Females—						
Cephalic	76.44	.61	4.34	.43	5.68	.56
Nasal	77.23	1.13	7.97	.79	10.31	1.03
Facial	84.79	.73	5.16	.55	6.58	.65
3. Thirty-three adult Thakuriya Males—						
Cephalic	76.13	.39	2.23	.27	4.23	.35
Nasal	77.88	.79	6.69	.56	8.60	.71
Facial	87.73	.58	4.04	.41	5.63	.47